"THE PROGRESS OF THE CENTURY," BY FAMOUS SPECIALISTS.

many, Austria and France for a different

THIS is the tenth in the series of special articles on the world's development in the past hundred years. It considers modern military affairs, the peace strength of armies, and the significant changes that have been inaugurated. The author has written for the lay reader. It will be followed by others, fourteen in all, which will review the various departments of literature, naval ships, and religion.

SIR CHARLES DILKE.

One of the foremost of English public men is Sir Charles Wentworth Dilke, formerly Undersecretary of State for Foreign Affairs. He is informed on the politics of Europe, and on the condition of the armies, whose existence has much to do with political conditions. He is the author of "Greater Britain," "Present Position of European Politics" "The British Army," "Problems of • Great Britain," "Imperial Defense," with Spenser Wilkinson, and "The Brit-

Aside from his special knowledge of military affairs in Europe and America. he has been a student of the time. He had problems to face when he was Undersecretary of State for Foreign Affairs, and he faced them bravely. He is a typical Englishman in many respects. He has a country place, a shooting place, and a house in London. For recreation he takes to rapler fencing. light-pair rowing, best-boat sculling and riding, the amusements of many of his

He was born in 1843, and is the second Baronet, the title having been con ferred on his father in 1862. Sir Charles was educated at Trinity Hall, Cambridge, and was a Scholar of the Hall. He was Senior Legalist, or Head of Law Tripos, in 185, a position of distinction in the university. After leaving Trinity, he was a barrister in Middle Temple, and was a member of Parliament from Chelsea from 1868 to 1886. From 1889 to 1882 Sir Charles was chairman of the Royal Commission for negotiations with France, and he was chairman of the Royal Commission for Housing the Working Class, in 1884 and 1885. His second wife is the famous Lady Dilke, author, art critic and active philanthropist.

SUMMARY OF SIR CHARLES DILKE'S ARTICLE

When it comes to a consideration of the science of warfare, the views of Sir Charles Dilke must be consulted. In the following article he has paid his . ents to the bungling methods of the army of Great Britain, and exposed its most important weaknesses.

Fundamental Conditions.

With a firm hand he has swept the horizon clear of every outline that is likely to interfere with a good view of the fundamental conditions of military affairs, and then he has brought out these latter objects into strong relief. For the lay reader's special pleasure it must be remarked that he is not technical. He has viewed the matter in a plain, common-sense sort of a way, very effective method, and one that brings conviction.

Armies of Germany and France.

Sir Charles tells why he has taken the armies of France and Germany as his standards of measurement. He looks over the struggle of weapons, and the ifferences in the practice of military tactics because of changes in weapons. He talks about the peace strength of modern armies, and discusses the systems of the various European countries.

The Army's Stomach.

According to Sir Charles, the possibility, or, more properly speaking, the necessity, of the rapid mobilization of armies, is the great change of the century. In this connection the equipment of the army is of paramount importance. Napoleon's historic remark that an army "travels on its stomach" will have an especial significance. The armies of the future will "fight on their stomachs." Sir Charles calls attention to the tendency of massing enormous • bodies of men, and continuing the battle over several days. And here comes in the difficulty of feeding this large body of men.

· are not an unmixed evil, and explains why.

Warfare.



is doubtful how far, even if as civilians we tary change as "progress," there has been any considerable advance in the larger aspects of military science within the century. The genius of Bonaparte, working upon the foundations laid by Frederick the Great, established a century ago principles which are essentially applicable to the mililery and musketry have affected the dispociples of the art of preparation for war and of strategy stand where they stood be- Russia

Scharnhorst was the Prussian officer who Theory of the system to rules applicable to the use of whole management of the army was too often concentrated in the hands of the man | changed during the Nineteenth Century. leon had the defect that, failing the man of genius at the head of the army, it broke latest writers-such as the Frenchmen mans, who followed Scharnhorst, in the Clausewitz. The theory of the armed course of the century has been to codify the Napoleonic system so that it was pospractice without impairing its essence. It has produced the admirable existing They have also established a division of armies of France. its supply department (under a Minister of War) from the "brain of the army," as Mr. Spenser Wilkinson has well called it, which manages the preparation for the strategy of war and the strategy itself. These socalled Prussian principles of decentralisa-tion and "initiative" are, however, not new and not Prussian, and may be discovered in the conversations of Napoleon Bonaparte. The French in 1870 had forgotten his teaching and the Germans had retained it. It is, nevertheless, the case that the number of men placed in the field by the military powers having increased, the intelligent initiative of corps commanders and even of the more essential. It is impossible that the great general staff can give orders in advance which will cover the responsibility of all the inferior Generals, and brains have advantage drown himself in details, and he can only provide in his orders an outline sketch which his subordinates in various parts of the field of operations have to fill

student of military politics rather than desires to bring largely into the account the changes in military organization which drill and discipline of troops), has been on the Continent of Europe have made it chiefly a nursery for the white army in inpermanently national, and which in the dia, and will be for that in South Africa. United States made it temporarily national The expeditions which the country is during the Civil War, and would make it obliged to send from time to time across great scale in which the North Ameri-

cod in France, Germany, Switzerland, stria-Hungary, Italy, Roumania and saria the smaller professional armies the Eighteenth Century, the popular believe to retain that command of the cean without which her old-fashioned army would be useless.

Belgium has an old-fashioned army of another type. A small force of conscripts is "drawn," and the men are allowed to asters of Prussia early in the century, in

The editor has asked me to write upon might be supposed. It is true that each the military progress of the century, but it nation can put into the entire field of warfare larger numbers than that nation could still not beyond the bounds of possibility that in certain cases small armies may produce results as remarkable as those teenth Century; and, on the other hand, although there will, upon the whole, in future tary matters of the present day; and al- Continental wars be larger armies in the corps were of varying strength, and there field, no one General is likely personally to was no certain knowledge on the part of handle or to place upon a field of battle a administrators less admirable than the first

"Armed Nation."

The Prussian Clausewitz only explained for us the doctrines of Bonaparte; and the Derrecagalx and Lewel-only continue all the Prussian system in its ementials dates from Jena, and the steps by which

resources are so fabulously great that they and staff named ready for war. In each of the great military countries the army is and they alone are able to wait for war before making war preparations. No Around the chief of the staff and the Min-Power will attack the United States. All ister of War are the "Generals of armice," Powers will submit to many things and and in France a potential generalisain the United States. The only territorial nent, but are not advancing their military of her population. They are of them-

The whole question, then, unfortunately for us Europeans is a European question, and I need make but little reference to by the "Generals of armies." These Generals of armies." happier lands across the greater seas. In Europe the United Kingdom stands absolutely apart. The existence of the British |

in. The "initiative of subordinates" is but but costly army, sufficient for present needs but insufficient to meet their probable he natural division of labor.

If the editor has called on me, a civilian tudent of military politics rather than tudent of military politics rather than England and Ireland (and in Ireland now

DEVELOPMENTS IN THE SCIENCE OF WARFARE BY SIR CHARLES DILKE. find substitutes for money. But Belgium and the other smaller Powers, except Switzerland, Roumania and Bulgaria, may be eglected in our survey. Switzerland has eveloped an excellent army of a special ocal type; a cheap, but highly efficient nilitia, the most interesting point about which is that, while field artillery is supposed to be difficult of creation and only to be obtained upon a costly and regular sysem, Switzerland produces an excellent field artillery upon a militia footing. The garison artillery militia of Great Britain have onger training than the field artillery of the Swiss Federation, but the results of the training are very different. Similarly, while cavalry is supposed to be in the same position as artillery in these matters, Hungary produces a good cavalry upon a militia system. It is, however, to the native army in | made as short as possible, given the ne-India that we have to turn if we want to see what long service cavalry in past centuries used to be, for in these days of thorter service cavalry at least has suffered decline, and, so far from cavalry, on the whole, presenting us with a picture of military progress in the century, the cavalry of the present day is not to be compared with the cavalry of the past. Roumania and Bulgaria, although small countries, have emarkable armies of the most modern type, of great strength when considered proportionately to their populations, but these need not come under our examination, cause substantially they are on the Prussian plan.

Cavalry Has Declined in These Days.

Russia differs from Germany, France and tustria in having an immense peace army. Her peace army is indeed as large as that of the whole of the Triple Alliance, and the enormous distances of Russia and the dificulties of mobilisation and concentration force her into the retention and development of a system which is now peculia to herself. The armies of Russia resemble more closely (sithough on a far larger scale) the old armies of the time before the changes which followed 1866 than the French, German and Austrian armies of today. Italy is decreasing her army and has been driven by her financial straits to completely spotl a system which was never good except on paper. It is doubtful whether now in a sudden war the Italians could put into the field any theroughly good troops, except their Alpine battal-lons, which are equal to those of the French. The Austrian system does not differ sufficiently from that of Germany and of France to be worthy special note, al-though it may be said in passing that the Austrian Army is now considered by cometent observers to be excellent. We may take as our type of the armies of to-day those of Germany and of France. These ies are also normal as regards their cost. Great Britain having no conscription, and being in the habit of paying dearly for all services, is extravagant in her military nditure for the results obtained. Switzeriand and Russia, with their different sys-tems, and for different reasons, obtain their armies very cheaply; and if we wish to know the cost of the modern military system it is to Germany and to France that

Modern Military System in Germany and France.

Those who would study the French or large literature on the subject. The principles which govern the establishment of of the first line, a field army of the second an armed nation upon the modern Prussian 1868 and again after those of 1870, are exbetween and nourished and supplied from such publications as the filustrated "Annual of the French Army," published each year by Plon, Nourrit et Cle., or in the official handbooks published by the Librairie Militaire Baudoin. In the time of Bonaparte and even in the

men who could be placed in the field. In 1870 Louis Napoleon was wholly misin-formed as to his own strength and as to that of his opponents, which were, however, accurately known to Von Moltke. In these days such confusions and difas set forth in books have not been greatly of the great military Powers are of equal strength and would be equally reenforced in the extraordinarily rapid mobilization which would immediately precede and immediately follow a declaration of war. The chief changes in the century have been a greater exactitude in these (especially a great increase in the strength of field artillery), and in these last years a grouping of the army corps into armies, which exist in Germany, France and Russia have been but slow.

The United States stand apart. Their and staff named ready for war. In each yield many strong points rather than fight (who on the outbreak of war would often be superseded by another General in the neighbors of the Republic are not only actual command). In the case of Germany not in a position to enter into military the command would now be exercised by rivalry with her on the American Contithe young Emperor. In the case of France it would be exercised by the generalissimo establishments with the growth of their or with the chief of the staff as his "Berthier or her population. They are of them-selves not only unable to attack, but equally unable in the long run effectively as duties in the case of armies so unwieldly as unable in the long run effectively to resist the entire forces of the first line and of the second line in Germany or France and of the first line in Russia would be exercised armies which these Generals would actually command. These Generals also form the council of war, or principal promotion German Emperor and the Emperor-King

the capital and not taking his pince in the field.

through the ranks without attracting attention by keeping up a large peace army The system is now maintained by Ger-

reason. Such Powers desire to have an enormous force for war, but, for budgetury reasons, to keep with the flag in time of peace the smallest force which is consistent with training the men sufficiently to enable them, upon mobilization, to be brought back to their regiments as real soldiers. It is these considerations which have induced the younger and more thoughtful of the Prussian Generals to force on Germany a reduction of the period of infantry service to two years. The army in time of peace becomes a mere cessity of turning out a man who, for some years will continue to have the traditions of a soldier. It is a question whether something has not been sacrificed, in France at all events, to uniformity. longer period of training is undoubtedly necessary to make an efficient cavalry soldier than is necessary to make an efficient infantry private; and a man who has served about two and a half years only in a cavalry regiment cannot, in the majority of cases, be brought back into the cavalry after he has returned to civil life. Cavalry, in the modern armies, is likely to be a dininishing force as war goes on. The armies will enter upon war with a number of infantry, which can be kept up, the osses of war being supplied by reserve (their weakness, after 1870, both constructed men as good as the men of the first line; but each army will enter upon war with a force of cavalry which will be rapidly destroyed if it is much used, and which will not be replaced in the same manner. The reserve cavalry, of which the French press boasts, is a paper force, and the pretended mobilization of two of its regiments a farce. The French would take the field with the cavalry of the first line only, seventyyears old), or less than half the \$4,000 cayalry with which Napoleon marched in 1812. The same thing might possibly be said of artillery as is said of cavalry but for the fact that Switzerland tells a different story as to the possibility of rapidly training artillerymen with a considerable measure of success. The French improvised artillery of the latter part of the war of 1870 the Swiss annual maneuvers. were also a creditable force, while it was

discovered to be impossible to create a of France, during his two years or nearly three years' training as the case may be, is as hard as any human work; and the The efficiency of the reserves in Franc Germany and Austria is tested by the calling out of large portions of them every mit, not on the whole unwillingly, from year for training, and they are found, as far as the infantry go, thoroughly compe-tent for the work of war. The difficulties as regards cavalry are so obvious that it is becoming more and more recognized by Germany and by France that the cavalry will have to take the field as they stand in peace, and that their reserve men will have to be kept back with a view to the selection among them of those who are fit to serve number to the train and other services where ability to ride and manage horses is more necessary than the smartness of a good cavalryman. France and Germany cominally look forward to the creation of two kinds of armies in time of war, one of the first line to take the field at once, and than it is of the inhabitants of the other the other to guard the communications and garrison and support the fortresses, but in countries; and in Prance, at least, the divide their armies into three-a field army line, out of which fresh army corps will at once be created on the outbreak of war, and, thirdly, a territorial army for communi-cations and for fortress purposes and as a last reserve. It is a portion of the French and German system that each army corps of the first line—and the same would be

largely as possibly its supplies from its own territorial district. The peace strength of the great modern armies is for France and Germany about 500,000 men each, and the war strength between 4,000,000 and 5,000,000 men each. The peace strength of Russia is now over \$0),000 men. Of the war armies the training Germany, France, Austria and Roumania sufficient reserves of clothing and rifles to equip the war armies of those Powers for

the case in war with the second line corps-

has its separate organization of ammunition

train and biggage train and draws as

England's Poor Equipment

in Fighting Strength. The cost of the system of a modern army is very much less than that of the old-fashloned armies. The United Kingdom spent till lately (including loan money) about fis.-000,000 upon her army. India rarely less than f14,000,000 and an average of f15,000,000. than 114,000,000 and an average of \$15,000,000, and the British Empire, outside the United Kingdom and India, £2,000,000, or an average of £85,000,000 in all upon land forces. The expenditure of the United Kingdom upon land forces has been permanently increased to an enormous extent by the South African war and cannot now be estimated. The expenditure of France and Germany upor large as is her peace army, less again. But France and Germany in the event of army formation and with adequate com-mand, whereas the United Kingdom can place a doubtful three corps in the field in India with great difficulty, and in the true at home without an increase amount of reorganization and waste of time after the declaration of war. It is contended by the authorities responsible for the British Army that two army corps could be placed in the field at home, and elaborate paper arrangements exist for this purpose; but the facts are as I state them, and not as they are professed to be. It is pretended that three corps of Regulars were dispatched to South those countries a large amount of decentralization as concerns military matters, and the less efficient military machines of the field will pour into a fight already rig

Government of a highly centralized modern power. As soon, however, as war breaks out, the military States of time of peace

would be grouped, and the four or five groups known as "armies," also, of course, theoretically, brought together under the directing eye of the generalissime. In the case, at all events, of Germany, unity of

Rapidity of Mobilization the Great Change of the Century.

The mode in which a modern army on the anticipation of war prepares itself for the field is extraordinarly rapid in point of necessary in the time of Napoleon Bonaparte; and it is this rapidity of mobilization and concentration which strikes the bserver as the greatest change or progress of the century in connection with armies But it is a mere consequence of relironds and telegraphs, and is only the application to military purposes of those increased facilities of locomotion which have played so great a part in the progress of the century. oints fixed beforehand of the men of the reserves, who bring the army up to its war footing, and the clothing and equipment of hese men and the distribution to the mobilized regiments of their full materials of war. The cavalry and horse artillery kept upon the frontier are now in a condition of permanent readiness in the principal milttary countries, as they would be used to cover the mobilization of the remainder of the army. The moment mobilization is ac emplished concentration takes place-on the frontier in the case of the principal Powers near the line of concentration are forts, which play a greater part in the French scheme of defence than they do in the German. The French in the days of a line of intrenched camps and built a kind of wall of China along the most exposed portion of their eastern frontier; whereas, the Germans are prepared to rely upon their field armies, supported by a few immense fortresses, such as those (on their western frontier) of Metz and Strasburg. The rench keep in front of their fortresses at Nancy a strong division, which is virtually always on a war footing, and both in France and Germany the frontier corps are at a interior, and are meant to take the field at once, so as to help the cavalry and horse artillery to protect the mobilization and oncentration of the remainder, and, if possible, to disturb the mobilization and concentration of the foc. Those who would visit Nancy and Metz, but should not neglect

The work of the recruit of Germany and tions of the continental countries patriotic motives to a slavery of which the more fortunate inhabitants of the United ception. The British or the Belgian paid recruit would mutiny if forced to work as works the virtually unpaid and ill-fed recruit of Russia, Germany, Austria and France. The enormous loss to many industries which is caused by the withdrawal of the men at the age of 20, just when they are most apt to become stilled workmen, is, in the opinion of some Germans, compensated for by the habit of disendurance which be communicated to the soldier for the rest of his life. This is perhaps more true of the German character tellectual life. There are, however, as will to account, some of which tell the other

vailing military system of the day is to be found in Switzerland, which has a very cheap army of the militia type, but one which is, neverthless, pronounced efficient by the best judges. The mobilization of that of either Germany or France, and, great as are the strides that both France organization and as regards numbers since mobilization system since that time and are still able at a much less proportional a proportional force as Germany, and this not largely provided with cavalry.

Artillery Development in Battlefields of the Future.

The greatest change in the battlefields of years ago will be found in the development and increased strength of the artillery. A has miles of front almost entirely occupied with guns, and the guns have to fire over such numbers of guns to be used in any other way. The attacking side (if both, intempt attack) will be chiefly occupied in obtaining positions on which to place its guns, and the repeating rifle itself, deadly as is its fire, cannot contend at ranges over 1,000 yards, unless the riflemen are heavily intrenched, with the improved shrapnel fire a war will indeed be engagements of cavalry massed upon the frontier on the second day of mobilization, so rapid will the open fields of the later weeks will be battlefields the old Generals (often grown unwieldy in said that when both sides are equally strong in numbers, in courage and in many countries so much autonomy as to recall to the political student the Federal organiza-tion of the United States rather than the Government of a highly centralized modern

On the other hand, in the German Army

line than in the French, and the regimental system more available in the field, while on the French side the greater military aptitude of the French race may perhaps be counted upon to remedy the comparative defect. The Prussians make up for the inferior military aptitude of the German people by patriotism, discipline and the conferring of honor and of civil employment in after life on all who do their duty in war. They also provide more effectively than do the French against incapacity in high place. Above all, however, we should attach importance to the wisdom of suc cessive Kings of Prussia in treating 'he Prussian Army as an almost sacred institution and in constantly working in time of peace to make it and keep it a perfect instrument of war.

The weakest point, relatively speaking. in the French organization, and the strongest point, relatively speaking, in the German, is the efficering of the second and third line. The one-year-volunteer system gives the Germans excellent "territorial" officers, while the French have been forced virtually to abolish it as impossible of successful application in a country so jealous of privilege as in modern France. The territorial infantry regiments of France would be excellent for the defence of fortresses, but would for field purposes be inferior to that part of the Prussian landwehr which would remain over after the completion of the reserve corps. The reserve cavairy regiments of France have been created in order to provide promotion and sinecure appointments and would not produce a cavalry fit for true cavalry service in the field. It would carry us beyond the proper limits of this article to explain how it is that the French could create a field artillery of the second line in time of war which would probably be superior to that of Germany. This forms a set-off against some other inferiority of the French.

The newest point in the development of nodern armies is the recent separation in the German Army of the cavalry intended for patrol duties from the cavalry intended for fighting in the field. We have had to face the same problem in South Africa, but this condition of our war was peculiar.

The Struggle of Weapons. It has been said that the history of warfare is the history of the struggle among weapons, and that each change in tactics and even in strategy has come from scientific change affecting weapons. In the century we have seen the change from the smooth bore to the rifle and from the ordinary to the repeating rifle. We have seen the modifications of artillery, which are beginning to give an application of the quick-firing principle to field artillery and the use of high explosive shells, likely to affect by their explosion even those who are near the bursting shell and who are not struck by its fragments. Smokeless powder has altered the look of battles and has reduced their noise. It provides excuse for the incompetent. It would be easy. these changes as regards tactics, and still more with regard to strategy, while with tactics we are not here concerned. The great Continental military nations have t Continental military nations have ber, 1899, and so terminated the erto not allowed themselves to be much Nineteenth Century. The lat of Januand many of the modern fads which are the leaders of these great forces. The British machine guns, for examp own. All nations have their military fads, except, perhaps, the severely practical zation, from which it is receding; America has her dynamite gun; the French have their submarine torpedo boats. Our mabeen made in the art of war by modern weapons, one would have thought that the alry in the field. Yet protective armor has been recently restored to as large a tury, and the use of cavalry in the field is defended as still possible by all the highest authorities on the Continent. My own opinion on such matters is that of a layman and should be worthless, but it agrees with that of several distinguished military writers. I confess that I doubt whether in future wars between good armies, such as those of France and Germany, it will be possible to employ cavalry on the field of hattle, and I go so far as to think that the

costly to be possible. Our South African experience is not, however, regarded by Wilson, who has made a very thorough study of the future of naval war, has pointed out with great force the most striking of difficulties of war in the future as caused by the enormous concentration of forces in a particular tract of country. The result of ties about supply, prolonged battles of an in-decisive kind leading to exposure, absence of sleep and to conditions which would form the severest strain for professional men of war, while those who will now be subject to them will be the ordinary popuso far as patriotism may in some cases make up as regards courage and endurance for absence of military tradition. The vast

direct offensive, still believed in by the

Enormous Military Organization Not an Vnmixed Evil.

I have all through this article written of Germany and France as the modern military countries to be taken as a standard in all 1879. But, although imitation is generally feeble, it must always be borne in mindfeeble, it must always be borne in mindthat the French people have greater military aptitude than the German, and that
unless beaten at the beginning of a war
they are always in the highest degree
formidable. The perfection of system is to
be found in Germany, and the peculiarities
of the German system are the combination
of enlightened patriotism in all its individuality with iron discipline. The system is
so strong that unless well managed it would
crush out individual responsibility; but the

onsibility all down the gradations of the army to the humblest noncommission ficer and even to the detached private. The universality of promotion by a certain high standard of merit and the absence of jobbery are more thoroughly obtained in Germany than in any other army, and Lord Wolseley's criticisms on the 1898 maneuvers of our own army, criticisms renewed in 1909, in which he told us that no one had done well in the field, and that this proved that no one could have done his duty during the past year, would be imp Germany, and must have shocked military opinion throughout that country.

It is not unusual to assume that the enor-

mous military establishments of the Conti-

net of Europe are an almost unmixed evil.

But this may perhaps be disputed on two grounds. In some cases, such as that of Italy, the army acts as a kind of rough national university in which the varied life of districts often discordant is fused into a patriotic whole, dialects are forgotten and common language learned. In the case of France the new military system is a powerful engine of democracy. There is a French Prince (not of the blood) now serving in a squad of which the corporal is a young peasant from the same department. A few years ago I found the Duc de Luynes, who is also Duc de Chaulnes and Duc de Chevreuse, the owner of Damplerre, the personal friend of Kings, serving, by his own wish, for as the eldest son of a widow he was exempt, as a private of dragoons, and respectfully saluting young officers some of whom were his own tenants. The modern military system of the Continent, in the case of France and Germany, at least, may also, I think, be shown to have told in favor of peace, a war with the greater freedom, because we do not, as a rule, know what war means with our own eyes are a very small minor-ity. But every inhabitant of France and Germany has the reality of war brought of his kin would furnish their tribute of "cannon flesh" (as the French and Germans call it) at the outbreak of any war; and the ience of the whole of the women both countries is powerfully exerted in consequence on the side of peace. CHARLES W. DILKE.

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Paid Money to Publish Their Disputes.

It is all to the good that whatever controversy still remains with regard ished to the advertisement columns Here are two from to-day's Times:

THE PUBLIC ABROAD and end with a year. The Twentieth Century could not begin on the 1st of January, 1901, because the to decade ended with the fist of Dec

beginning of a street should be dis-belied. A street may be a series of

00, which means the twenty-seventh day of the eleventh month of the ninety-pinth year of the century." tional wealth be imagined than that the two controversialists should in this

THE LOVE OF COLOR

MRS. OPIE, the widow of the great por-trait painter whom some one has called the "inspired peasant," never, even in her old age, lost her love of bright colors. A little girl, Emma Martin, afterwards known in literature as Emma Marshall, visited her one day and experienced a rare pleasure, Bhe says:

one day and experienced a rare pleasure. She says:

On a screen in her drawing-room were hung a number of prisms, which were suspended from chandellers before the bell-shaped globes came into fashion. It sat on a stool at my mother's foot, wondering what those long bits of glass could mean. Presently the brilliant rays of the western min filled the room.

"Now," said Mrs. Opie, "thou mayet run over to that screen and give it a shake."

I did as I was bidden. "Be gentle." said my mother in a warning voice, but I gave the screen a vigorous shake.

Emerald, ruby and violet rays danced on the wails and celling and delighted me so intensely that I kept repeating the process. Then my mother, airaid of mischief resulting, came and drew me back to her side. Mrs. Opie looked at me and said:

"If thou lovest bright colors, thee will never see anything mere beautiful than the rainbow God sets in the sky."

THE SONGMAKER.

Where ha' ye been in the woods all day, My son, now tell me truly? I ha' been where fawns with the shadows

Ha' ye cut no stint in the woods to-day, No fagget for winter firing?

I ha' slept on the beechen branches' sway
To the wood-doves' soft desiring.
I wot ye had given tryst with a lass,
Or met with some idle limmer!
I have seen where the Nut-brown Maiden

(O well I see ye are witched this day
Forfend ye be not hag-ridden)
I heard them laugh as they flew eway
In the hazel thickets hidden.
I have learned the song that the Dancers

Had ye gotten a fairy love to-day
She had gi'en ye a piedge at gloaming;
Had ye brought one golden jewel away
Nor come so bare at boming.
Ye had something safe for the time of lack.
Think ye winter cometh naver?
Nay, peace! From the forest I bring ye

Think ye win.

Think ye win.

Nay, peace! From the Nay, peace! From the Lesis's Popular

A song that shall live forever.

Frances Bannerman in Lesis's Popular

Monthly.